HiGHER®
PROFESJONALNI NA KAŻDYM SZCZEBLU

APPENDIX to the PN HEATER OPERATING MANUAL
ELECTRICAL CONNECTION AND INSTALLATION

NOTICE: ALL ELECTRICAL WORK TO BE PERFORMED ONLY BY AUTHORIZED PERSONS!

Connecting devices not in accordance with the manual may result in their damage

and void the warranty!

1. PREVIEW IMAGES OF ADDITIONAL EQUIPMENT

1.1. BLOWER FAN and SN-21 CONTROLLER for PN 1-5

1.2. TECHNICAL DATA of the SN 21 controller:

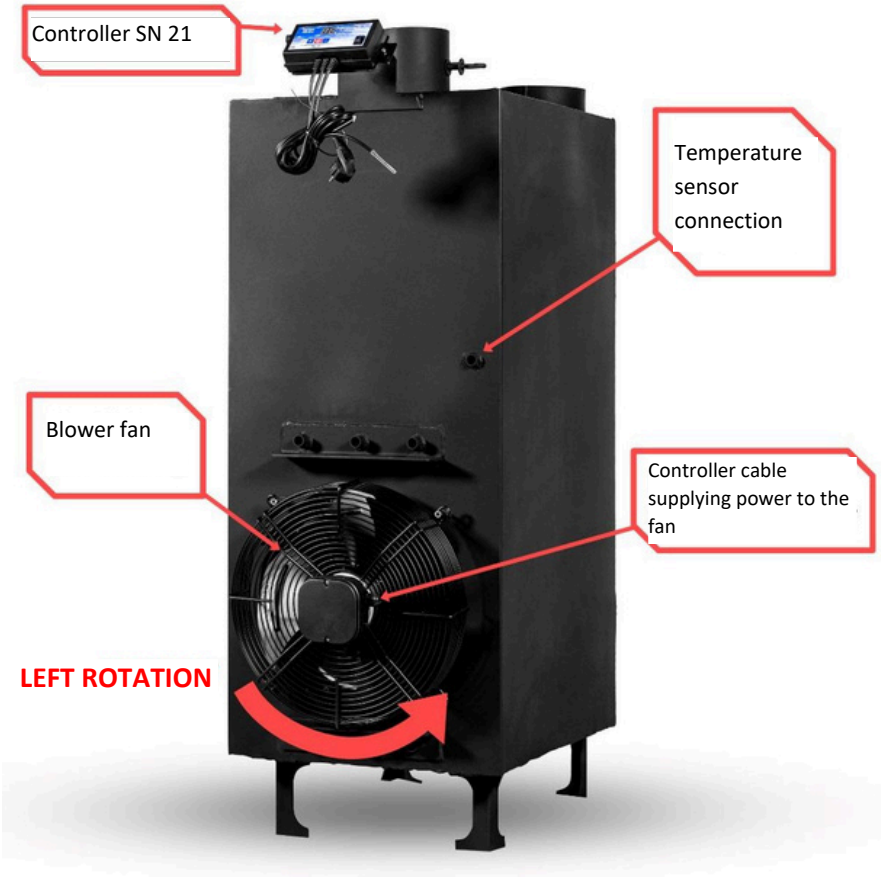
- Rated voltage range - 230V Power supply type - alternating
- current - 50Hz Rated current of the FAN OUTPUT 23V/50Hz -
- 2A AMPER Controller power consumption 2W Heater
- temperature measurement range - from 1 to 125°C Fan
- activation temperature setting range - from 35 to 80°C
- Rated impulse voltage - 250V Enclosure protection degree -
- IP20 Degree of contamination inside the controller - 2
- Degree of contamination outside the controller - 3
- Protection class II

1.3. TECHNICAL DATA of the fan:

- Rated voltage range - 230V

- Power supply type - 50Hz alternating current
- Controller power consumption depending on the model 35-200W (read PN manual)
- Rated impulse voltage - 250V
- Enclosure protection degree - IP20
- Protection class II

2. View and schematic diagram of the controller and fan installation to the PN heater



3.1 Brief description of the controller and fan installation to the PN heater

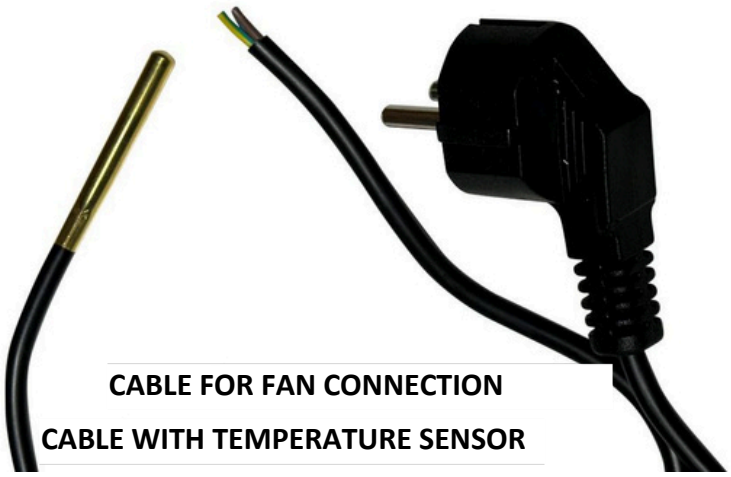
- Remove the controller from the packaging (a separate/full controller operating manual is included), then identify 3 types of wires - 1 - power supply with a plug, 2-with a temperature sensor (capillary), 3 - a 3-wire cable for connecting the fan, Fig.3.1.1.
- Remove fan from the packaging, unscrew the protective cover of the fan box(2xPHscrews), on the reverse of the cover there is a simplified diagram of the electrical connection of the fan to the power supply,
- Mount the controller to the bracket - using screws with nuts:2xM4
- Mount the fan on the heater - to do this,fititonto4xM6boltsfixedonthecasingofthejacket using the 4x M6 nuts and M6 washers provided, additionally check that none of the fan blades are rubbing/touching the jacket sheet metal,
- Insert the wire with the capillary into the tube that touches the furnace body, reading the jacket temp.
- Proceed with the electrical connection work in accordance with the wiring diagram on the fan cover, Fig. 3.1.3.
- Check again for correct wiring, start thecontrollerwiththe0-1button
- After proper connection and adjustment of the control options (as per the controller operating manual), turn on the controller for a trial run by setting the control to "manual", turn on the fan for a

trial run - observing the direction of rotation on the fan - only the LEFT direction proves proper, correct electrical connection, only the LEFT direction ensures proper blowing efficiency and ensures optimal operation of the heater!

- ***IMPORTANT: PROPER ROTATION ON INSTALLED FAN - LEFT ONLY!!!!***

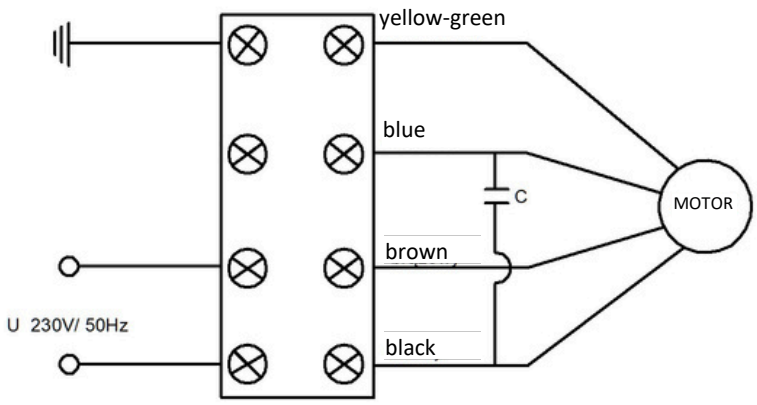
3.1.1 Preview image of SN 21 controller wires

230V PLUG

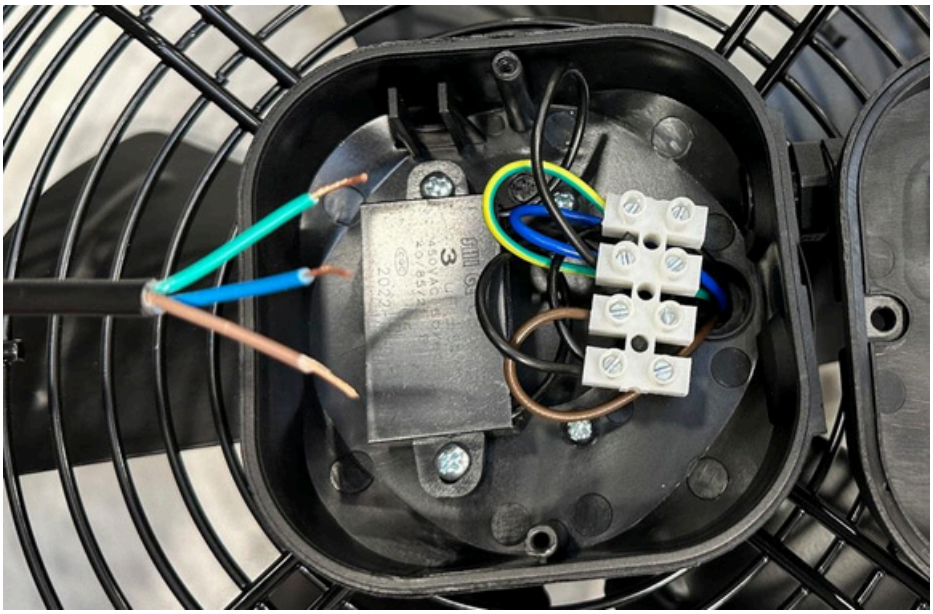


3.1.2 Photo of the fan BOX after unscrewing the flap/cover

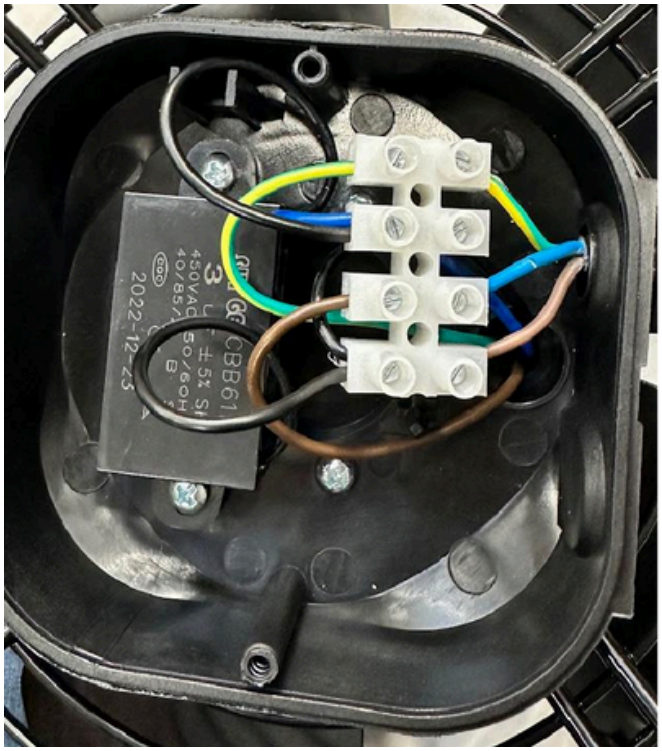
3.1.3 Diagram of the electrical connection ofthe POWER SUPPLY from the PL controller

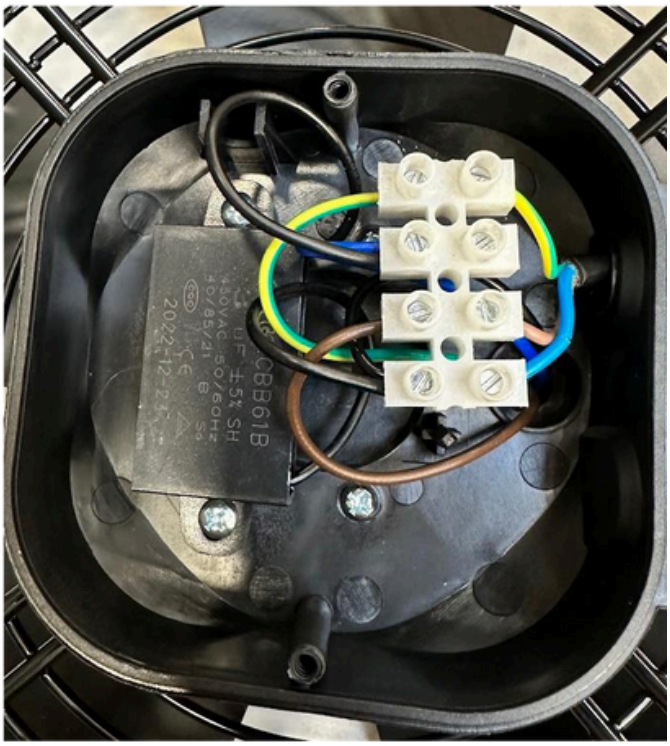


3.1.4 Fan BOX ready for connecting the power supply wires



3.1.4. photo of the power supply connection - NOTE the colors on the power supply in two combinations





Proper CONNECTIONOFPOWER SUPPLY WIRES!